## Amendment to the Claims:

Before claim 1, please delete the word "Claims" and substitute the following: What is claimed is:

Please cancel claims 1-15, and add the following new claims 16-30:

16. (New) A method for milling spiral bevel gears and hypoid gears the method comprising the steps of:

providing profile-sharpened or profile-sharpened and additionally form-ground bar cutting blades each having a shank and at one end of the shank a cutting edge profile which enables a first tooth flank, at least a portion of the bottom of a tooth slot, and least a portion of a second tooth flank lying opposite said first tooth flank to be cut in a tooth slot, and

completely cutting in a single milling pass using the cutting edge profile of a bar cutting blade: the first tooth flank, the bottom of the tooth slot, and the second tooth flank opposite the first tooth flank of each tooth slot of a bevel gear to be milled.

- 17. (New) The method as claimed in claim 16, wherein the step of generating a final geometry is by a hobbing method.
- 18. (New) The method as claimed in claim 16, wherein the step of generating a final geometry by a plunge milling method.
- 19. (New) The method as claimed in claim 16, where said method defines one of a rough milling process and a finish milling process.
- 20. (New) A profile-sharpened or profile-sharpened and additionally form-ground bar cutting blade for milling spiral bevel gears and hypoid gears comprising:

a shank with a cutting edge profile formed at one end of the shank by the intersection of at least one rake surface, at least two clearance surfaces and at least one top surface, said cutting edge profile including, for producing a tooth slot, a first cutting edge for a first tooth flank, a second cutting edge for at least a portion of the second tooth flank opposite said first tooth flank, and a top cutting edge for at least a portion of the bottom of the tooth slot, and wherein

the first and second cutting edges are adapted to completely cut the first and second tooth flanks respectively, and that the top cutting edge is adapted to completely cut the bottom of the tooth slot, thus enabling the tooth slot to be generated to a final geometry using one bar cutting blade in one milling pass.

- 21. (New) The bar cutting blade as claimed in claim 20, wherein the cutting edge profile is formed by the intersection of one rake surface with at least the two clearance surfaces and the top surface.
- 22. (New) The bar cutting blade as claimed in claim 20, wherein the cutting edge profile is formed by the intersection of two relatively angled rake surfaces with at least the two clearance surfaces and the top surface.
- 23. (New) The bar cutting blade as claimed in claim 20, wherein the first and second cutting edges define rake angles  $(Y_{SX})$  and  $Y_{SV}$  of about zero degrees.
- 24. (New) The bar cutting blade as claimed in claim 20, wherein the first and second cutting edges have rake angles  $(Y_{SX})$  greater than about zero degrees.
- 25. (New) The bar cutting blade as claimed in claim 20, wherein the first and second cutting edges have rake angles smaller than about zero degrees in either case.
- 26. (New) The bar cutting blade as claim 20, wherein the first and second cutting edges have rake angles ( $Y_{SX}$  and  $Y_{SV}$ ) one of which is greater than about zero degrees and the other of which is smaller than about zero degrees.
- 27. (New) The bar cutting blade as claimed in claim 16 wherein the rake surface is worked into the shank.
- 28. (New) The bar cutting blade as claimed in claim 24, wherein the rake surface between the first and second cutting edges is curved in a concave configuration.

- 29. (New) The bar cutting blade as claimed in claim 20, wherein for form-grinding the bar cutting blade at least one rake surface is a rake surface to be reground.
- 30. (New) A profile-sharpened or profile-sharpened and additionally form-ground bar cutting blade as claimed in claims 20 wherein the each bar cutting blade is mountable in an end face of a cutter head on a circle and wherein a cutting end of the shank protrudes from the end face of the cutter head.